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Notice of Allowability	Application No.	Applicant(s)	
	09/944,306	TERRY, ALAN J.	
	Examiner	Art Unit	
	Benjamin C. Lee	2632	

-- **The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Examiner's Amendment.
 2. ☒ The allowed claim(s) is/are 1-20.
 3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>02282006</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Thorne on 2/28/06 and 3/1/06.

Note: Amendment filed 12/1/05 was based on wrong version of claims, and therefore has not been entered.

The application has been amended as follows:

Claim 1. (Currently Amended) A data transmission system, comprising a transmitter and a receiver, wherein the transmitter is arranged to send data bursts with a low duty cycle [of less than 5%] at transmission timing points, the transmitter comprising a pseudo-random signal generator which governs the time delay between successive timing points and a local oscillator which controls the time of data transmission, and wherein the receiver comprises a corresponding pseudo-random signal generator and local oscillator, and wherein power is applied to the receiver substantially only corresponding in time to the timing of the data bursts, wherein at least one of the data bursts includes data that is utilized by the pseudo-random signal generator of the receiver to synchronize the pseudo-random signal generator of the receiver to the pseudo-random signal generator of the transmitter.

Claim 4. (Currently Amended) A system as claimed in claim 1, wherein each pseudo-random signal generator comprises a maximal length feedback shift register, and where the data

Art Unit: 2632

comprises data bits that are utilized to update a sequence of each maximal length feedback shift register.

Claim 5. (Currently Amended) A system as claimed in claim 1, wherein each data burst comprises a header section and a data section, and wherein the header section for a sub-set of the data bursts comprises a sequence which is unique compared to the header section and data section of the data bursts other than the sub-set of the data bursts, thereby to enable the receiver to obtain bit timing information.

Claim 6. (Currently Amended) A system as claimed in claim 1, wherein each data burst comprises a header section and a data section, and wherein the header section for a sub-set of the data bursts comprises the data [defining the] that modifies a sequence of the pseudo-random signal generator of the receiver and thereby, modifies a time period to the next message.

Claim 8. (Currently Amended) A system as claimed in claim 7, wherein the address data is used in combination with [the] a current output from the pseudo-random signal generator of the transmitter to generate a modified pseudo random sequence output by each of the pseudo-random signal generators.

Claim 14. (New) A system as claimed in claim 5, wherein the unique header comprises an additional bit of data compared to the header section of the data bursts other than the sub-set of the data bursts.

Claim 15. (New) A system as claimed in claim 5, wherein the unique header comprises a repeating sequence that is unique.

Claim 16. (New) A system as claimed in claim 15, wherein the repeating sequence is a repeating sequence of a single digit.

Art Unit: 2632

Claim 17. (New) A system as claimed in claim 1, wherein each data burst comprises a header section and a data section, and wherein the data section is an encoded data section.

Claim 18. (New) A system as claimed in claim 17, wherein the encoded data is compared at the receiver to data bit patterns that are potentially valid for error trapping

Claim 19. (New) A system as claimed in claim 1, wherein the data bursts comprises speed data and distance data related to a transported speed and distance of the transmitter.

Claim 20. (New) A system as claimed in claim19, wherein the data bursts are transmitted in one of two modes, a first mode is a static mode wherein housekeeping data is transmitted and speed data is not transmitted and a second mode is a moving mode wherein the speed and distance data is transmitted.

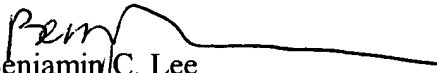
2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin C. Lee whose telephone number is (571) 272-2963.

The examiner can normally be reached on Mon -Thu 11:00Am-7:30Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Wu can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2632

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Benjamin C. Lee
Primary Examiner
Art Unit 2632

B.L.